

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P290810

Luminaire Tested: **14GR-LD5-28-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-F125-UNV-L82765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2927.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

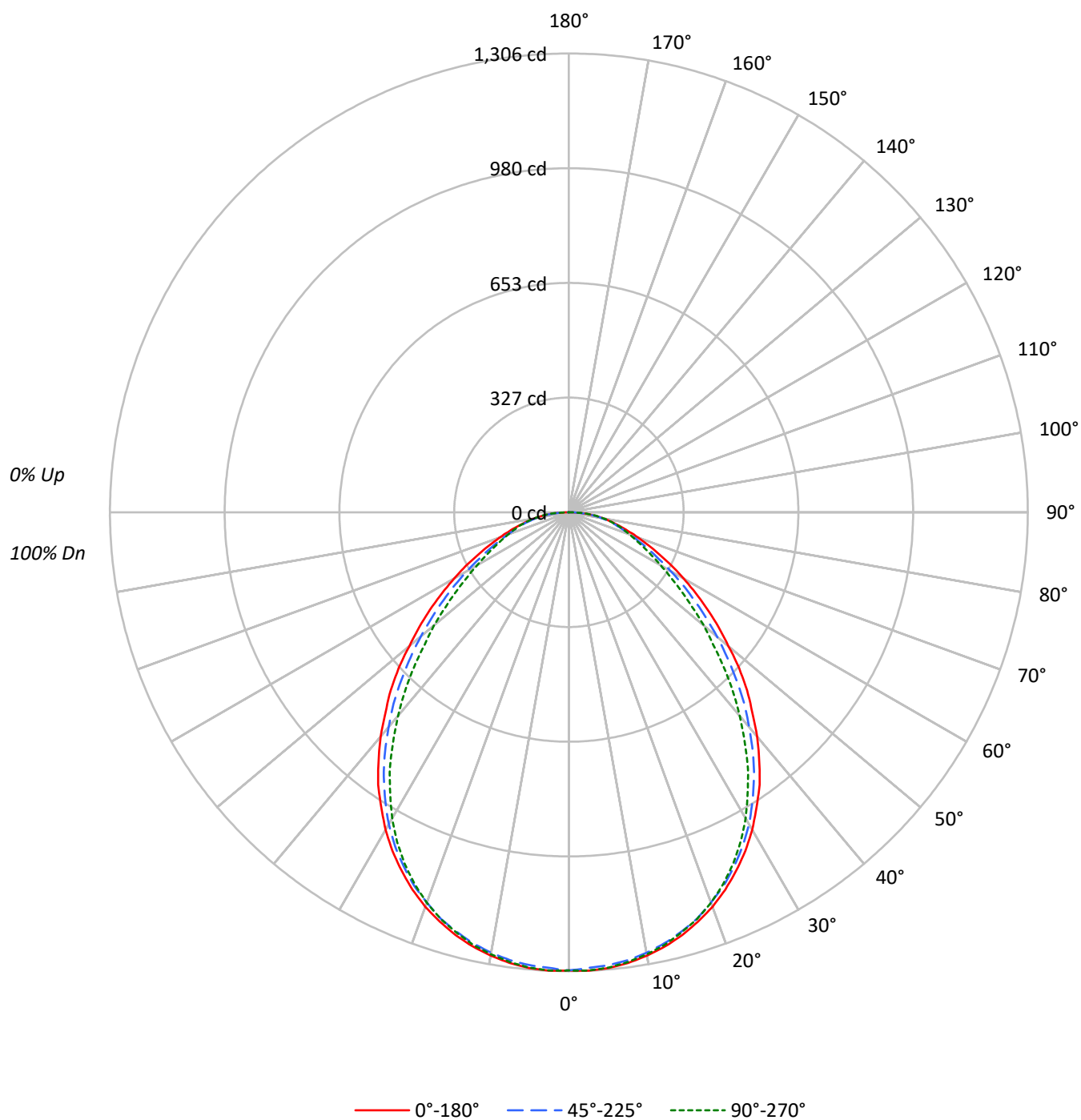
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290810

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P290810

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L82765-W2A1-U-4500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3509	3509	3509
5°	3517	3495	3513
10°	3501	3478	3490
15°	3470	3443	3449
20°	3421	3384	3386
25°	3343	3303	3280
30°	3241	3185	3125
35°	3108	3017	2918
40°	2928	2802	2655
45°	2729	2565	2374
50°	2482	2301	2097
55°	2259	2040	1827
60°	2026	1797	1623
65°	1806	1601	1492
70°	1644	1459	1443
75°	1536	1421	1493
80°	1543	1469	1554
85°	1612	1507	1717



TEST NUMBER: P290810

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	4.2
10°-20°	349.5	11.9
20°-30°	512.5	17.5
30°-40°	572.0	19.5
40°-50°	517.9	17.7
50°-60°	391.0	13.4
60°-70°	255.6	8.7
70°-80°	150.1	5.1
80°-90°	54.9	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	985.4	33.7
0°-40°	1557.4	53.2
0°-60°	2466.3	84.3
0°-90°	2927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1302	1299	1294	1301	1300	124
15°	1246	1244	1236	1243	1238	351
25°	1126	1122	1112	1110	1105	518
35°	946	938	918	898	888	589
45°	717	706	674	638	624	551
55°	482	471	435	400	390	431
65°	284	275	251	237	234	285
75°	148	144	137	140	144	159
85°	52	50	49	55	56	55
90°	0	0	0	0	0	



TEST NUMBER: P290810

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.0	1304.0	1304.0	1304.0	1304.0
2.5°	1306.0	1304.0	1297.8	1306.0	1305.3
5°	1301.9	1299.2	1293.7	1301.2	1300.5
7.5°	1293.7	1290.9	1285.4	1292.3	1290.9
10°	1281.3	1278.5	1273.0	1280.6	1277.2
12.5°	1265.5	1262.7	1256.6	1263.4	1260.7
15°	1245.6	1243.5	1235.9	1242.8	1238.0
17.5°	1221.5	1218.1	1212.6	1216.7	1213.3
20°	1194.7	1190.6	1181.7	1185.8	1182.4
22.5°	1162.4	1156.9	1150.8	1150.8	1145.9
25°	1126.0	1121.9	1112.3	1110.2	1104.7
27.5°	1086.9	1083.4	1071.1	1067.6	1058.0
30°	1042.9	1038.1	1025.0	1014.0	1005.8
32.5°	994.1	990.7	972.8	958.4	946.7
35°	946.0	937.8	918.5	897.9	888.3
37.5°	889.7	883.5	859.5	834.0	821.0
40°	833.4	825.8	797.6	769.5	755.7
42.5°	772.2	765.3	738.5	704.9	690.5
45°	717.2	706.3	674.0	637.6	623.8
47.5°	656.8	645.1	610.8	572.3	556.5
50°	592.9	585.3	549.6	512.5	500.8
52.5°	535.9	524.2	490.5	454.1	441.8
55°	481.6	470.6	434.9	400.5	389.5
57.5°	427.3	415.0	384.0	353.1	342.1
60°	376.5	364.1	333.9	308.5	301.6
62.5°	330.5	316.7	289.9	270.0	265.2
65°	283.7	274.8	251.4	237.0	234.3
67.5°	244.6	233.6	215.0	208.2	206.8
70°	208.9	201.3	185.5	183.4	183.4
72.5°	176.6	170.4	158.7	160.1	162.1
75°	147.7	143.6	136.7	139.5	143.6
77.5°	123.0	118.9	114.7	118.9	121.6
80°	99.6	95.5	94.8	98.2	100.3
82.5°	74.9	71.4	72.1	77.6	79.7
85°	52.2	50.2	48.8	55.0	55.6
87.5°	26.8	25.4	24.7	29.5	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)